

(12) **United States Patent**
Proctor

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(54) **SYSTEM AND METHOD FOR
COORDINATION OF WIRELESS
MAINTENANCE CHANNEL POWER
CONTROL**

(58) **Field of Classification Search**
CPC H04W 52/16
See application file for complete search history.

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(56) **References Cited**
U.S. PATENT DOCUMENTS

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5,696,766 A 12/1997 Yeung et al.
5,715,521 A 2/1998 Fukasawa et al.

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(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
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FOREIGN PATENT DOCUMENTS

This patent is subject to a terminal dis-
claimer.

EP 1 017 187 7/2000
EP 1 039 657 9/2000

(Continued)

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OTHER PUBLICATIONS

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Association of Radio Industries and Business (ARIB), "Specifica-
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(51) **Int. Cl.**
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(57) **ABSTRACT**

In a wireless communication system, there are several
wireless channels used for communication between users
and a base station. Channel characteristics may be defined
by whether a channel is carrying traffic data and the timing
of the channel transmissions with respect to channels not
carrying traffic data. Different power levels between chan-
nels carrying traffic data or not may be defined and indi-
vidual power levels of each channel may be amended based
on individual power level command responses.

(52) **U.S. Cl.**
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(2013.01); **H04W 40/08** (2013.01);
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